



1. A filter for liquids comprising one or more porous filters, wherein the one or more porous filters have pores of a nominal diameter between 0.1 and 10 microns and the one or more porous filters each have surfaces that are substantially neutral in a selected fluid.

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2. The filter of any one of Claims 1 or 31 wherein the fluid is an aqueous fluid and the surface is substantially neutral over a preselected pH range.

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3. The filter of any one of Claims 1 or 31 wherein the one or more filters have a Zeta Potential of between about 10 and -10 millivolts in a selected fluid.

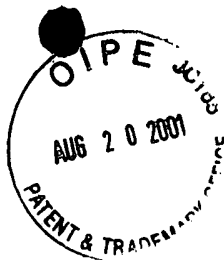
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4. The filter of any one of Claims 1 or 31 wherein the one or more filters have a Zeta Potential of between about 5 and -5 millivolts in a selected fluid.

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5. A system for filtering fluids comprising a fluid and one or more porous filters wherein the one or more filters having pores of a nominal diameter between 0.1 and 10 microns and the one or more porous filters each having surfaces that are substantially neutral in a selected fluid.

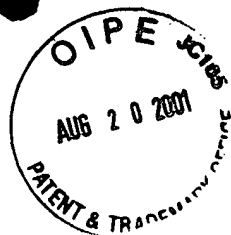
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7. The filter of any one of Claims 1 or 31 wherein the one or
more filters have a log reduction value (LRV) of at least 3 of particles in the
selected fluid.

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A2 8. The filter of any one of Claims 1 or 31 wherein the one or more filters have a log reduction value (LRV) of from about 3 to about 20 of particles in the selected fluid.

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9. The filter of any one of Claims 1 or 31 wherein the one or more filters have a Zeta Potential of between about 10 and -10 millivolts in the selected fluid and a log reduction value (LRV) of at least 3 of particles in the selected fluid.

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10. The filter of any one of Claims 1 or 31 wherein the one or more filters have a Zeta Potential of between about 5 and -5 millivolts in the selected fluid and a log reduction value (LRV) of at least 3 of particles in the selected fluid.

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11. A method of filtration of liquids comprising selecting a fluid containing one or more contaminants to be removed, forming one or more porous filters, said one or more filters having pores of a nominal diameter between 0.1 and 10 microns and the one or more porous filters having surfaces which are substantially neutral within the selected fluid and passing the fluid through the one or more filters to remove the contaminants.

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A2 12. The filter of any one of Claims 1 or 31 wherein the substantially neutral surface is inherent in the nature of the one or more filters.

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13. The filter of any one of Claims 1 or 31 wherein the substantially neutral surface is formed by surface modification of the one or more filters.

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14. The filter of any one of Claims 1 or 31 wherein the substantially neutral surface is formed by surface modification of the filter and the surface modification is selected from the group consisting of cross linking and grafting of one or more monomers on surfaces of the one or more filters.

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A2 15. The filter of any one of Claims 1 or 31 wherein the substantially neutral surface is formed by surface modification of the filter and the surface modification is by application of an energy source on surfaces of the one or more filters.

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A2 16. The filter of any one of Claims 1 or 31 wherein the one or more filters are made from a material selected from the group consisting of cellulose, glass, ceramics and metals.

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17. The filter of any one of Claims 1 or 31 wherein the one or more filters are made from a material selected from the group consisting of cellulose, regenerated cellulose and nitrocellulose.

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18. The filter of any one of Claims 1 or 31 wherein the one or more filters are made from a metal selected from the group consisting of stainless steel, nickel, chromium and alloys and blends thereof.

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19. The filter of any one of Claims 1 or 31 wherein the one or more filters are made from a plastic selected from the group consisting of polyolefins; copolymers or terpolymers of polyolefins; PVDF; PTFE resin; PFA; perfluorinated thermoplastic resins; PVC; nylons; polyamides; polyssulphones; polyethersulphones; polyarylsulphones; polyphenylsulphones; polyimides; polycarbonates; polyesters; and blends thereof.

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20. The filter of any one of Claims 1 or 31 wherein the one or more filters are made from a polyolefin selected from the group consisting of polyethylene, polypropylene and the like.

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21. The filter of any one of Claims 1 or 31 wherein the one or more filters are made from an ultrahigh molecular weight polyethylene.

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22. A filter comprising one or more porous filters each having pores of a nominal diameter between 0.1 and 10 microns and the one or more porous filters having a surface having an IEP within a selected operating range of pH such that the filter surface either maintains a neutral or weak charge or does not acquire a highly charged surface within the selected pH range.

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23. A filter comprising one or more porous filters each having pores of a nominal diameter between 0.1 and 10 microns and the one or more porous filters having a surface having an IPE that matches the pH of the liquid in which it is used.

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24. A filter of claim 23 comprising two or more filters in a composite filter, each with a different IEP.

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25. The filter of any one of Claims 1 or 31 wherein the surface of the one or more filters is treated with one or more monomers selected from the group consisting of acrylate or acrylamide monomers and methacrylate or acrylamide monomers and blends thereof.

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26. The filter of any one of Claims 1 or 31 wherein the surface of the one or more filters is treated with acrylic acid.

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A2 27. The filter of any one of Claims 1 or 31 wherein the surface of the one or more filters is treated with acrylic acid, a photoinitiator and a cross linker.

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A2 28. The filter of any one of Claims 1 or 31 wherein the surface of the one or more filters is treated with acrylic acid, a photoinitiator and a cross linker, wherein the cross linker is a N₁N¹methylenebisacrylamide.

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29. The filter of any one of Claims 1 or 31 wherein the surface of the one or more filters is treated with N_1N^1 methylenebisacrylamide.

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30. The filter of any one of Claims 1 or 31 wherein the one or more filters have a log reduction value (LRV) of at least 3 of the particles of an average diameter that is smaller than the nominal pore size of the filter in the selected fluid.

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Kelly
U.S. Serial No. 09/759,920
Preliminary amendment

Page

Please add the following claims.

31. The ~~filter~~ of Claim 1 wherein one or more pores filter have a nominal diameter between 0.1 and 1 microns.

REMARKS

Entry of this amendment is respectfully requested.

Respectfully submitted,

By

A handwritten signature in cursive script that reads "Paul J. Cook".

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